

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number
WO 2005/063261 A1

(51) International Patent Classification⁷: **A61K 31/702**,
31/7056, A61P 29/00, 3/10, 9/10, 11/06, 19/02, 19/04,
25/02, 25/28, 37/08

(74) Agent: **ÖHMAN, Ann-Marie**; Kaivokatu 15 B 23,
FI-20520 Turku (FI).

(21) International Application Number:
PCT/FI2004/000772

(22) International Filing Date:
17 December 2004 (17.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
20031927 31 December 2003 (31.12.2003) FI

(71) Applicant (for all designated States except US): **FARON
PHARMACEUTICALS OY** [FI/FI]; Itäinen Pitkätatu 4
B, FI-20520 Turku (FI).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **JALKANEN,
Sirpa** [FI/FI]; Rauvolantie 79, FI-20760 Piispanristi (FI).
SALMI, Marko [FI/FI]; Anniitunkatu 22, FI-20900 Turku
(FI). **JALKANEN, Markku** [FI/FI]; Rauvolantie 79,
FI-20760 Piispanristi (FI).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: AMINOGLYCOSIDE ANTIBIOTICS FOR USE AS VAP-1/SSAO INHIBITORS

(57) Abstract: The present invention concerns the use of a compound comprising one or more sugar moieties, which optionally are aminosubstitutes, and possibly other moieties, wherein said compound is a molecule comprising at least two aminosubstituents, said aminosubstituents being primary, secondary or tertiary amino groups, wherein said aminosubstituents are either attached to one single sugar moiety or attached to several sugar moieties or other moieties of the molecule, or to chains connecting two moieties or to chains being substituents to the molecule, for the manufacture of a pharmaceutical preparation useful as an agent capable of influencing an amine oxidase enzyme activity, more particularly inhibiting VAP-1/SSAO activity. The preferred compounds are aminoglycoside antibiotics, e.g., streptomycin, netilmicin, geneticin, gentamicin, puromycin, tobramycin and amikacin. The preferred conditions to be treated are inflammatory diseases or conditions, diseases related to carbohydrate metabolism, diseases related to aberrations in adipocyte differentiation or function or smooth muscle cell function, and vascular diseases.

WO 2005/063261 A1